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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : HARD, Robert A.
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Examiner : Unknown
Art Unit : Unknown

HONORABLE COMMISSIONER OF PATENTS
AND TRADEMARKS
Washington, DC 20231

FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Date	Name	Class/ Subclass	Filing Date	Enclosed
	2,767,047	Oct. 16, 1956	Wilhelm et al.	23-23	Oct. 20, 1953	Yes
	2,953,453	Sep. 20, 1960	Foos	75-121	Jun. 20, 1958	Yes
	2,962,372	Nov. 29, 1960	Foos et al.	75-121	Jan. 17, 1958	Yes
	3,117,833	Jan. 14, 1964	Pierret	23-19	Sep. 25, 1958	Yes
	3,300,297	Jan. 24, 1967	Field	75-24	May 26, 1964	Yes
	3,658,511	Apr. 25, 1972	Gustison	G22B-54/00	Dec. 22, 1969	Yes
	3,712,939	Jan. 23, 1973	Capps et al.	G22B-50/00	Mar. 29, 1971	Yes
	3,972,710	Aug. 3, 1976	Meyer	G22B-34/24	Jul. 9, 1975	Yes
	4,164,417	Aug. 14, 1979	Gustison	G22B-34/24; G22C-27/02	Apr. 28, 1978	Yes
	4,451,438	May 29, 1984	Floeter et al.	G01G-43/00; G01G-33/00; G01G-35/00; G01F-15/00	Sep. 29, 1982	Yes
	4,718,996	Jan. 12, 1988	Vanderpool et al.	G22B-34/30; G22B-50/00	Sep. 4, 1986	Yes
	4,808,384	Feb. 28, 1989	Vanderpool et al.	G01G-41/00	Dec. 21, 1987	Yes
	5,023,059	Jun. 11, 1991	Bielecki et al.	B01D-11/00	Nov. 2, 1988	Yes

Examiner Initial	Patent Number	Date	Name	Class/ Subclass	Filing Date	Enclosed
<u>SJB</u>	5,084,253	Jan. 28, 1992	Pollock et al.	G01G 33/00; G22B 34/20	Nov. 13, 1989	Yes
<u>SJB</u>	5,437,848	Aug. 1, 1995	Hard	G01G 50/00; G01G 57/00	Jul. 10, 1992	Yes
<u>SJB</u>	5,492,680	Feb. 20, 1996	Odekirk	G01F 17/00	Aug. 4, 1994	Yes

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class/ Subclass	Translation Yes No	Enclosed
<u>SJB</u>	0 041 459	Jun. 1, 1981	European	G22B 34/24; G01G 33/00; G01G 35/00	Abstract	Yes
<u>SJB</u>	2 438 623	Jan. 23, 1980	France	G01B 15/047	Abstract	Yes

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial	Document	Enclosed
<u>SJB</u>	1. PCT Application No. WO 90/02823, published Mar. 22, 1990.	Yes
<u>SJB</u>	2. PCT Application No. WO 95/13985, published May 26, 1995.	Yes
<u>SJB</u>	3. PCT Int'l Appln. No. PCT/US97/04013 Search Report mailed July 16, 1997.	Yes
<u>SJB</u>	4. PCT Application No. WO 94/01190, published Jan. 20, 1994.	Yes
<u>SJB</u>	5. PCT Int'l Appln. No. PCT/US97/04089 Search Report mailed August 12, 1997.	Yes
<u>SJB</u>	6. PCT Int'l Appln. No. PCT/US97/04088 Search Report mailed August 5, 1997.	Yes
<u>SJB</u>	7. "Extractive metallurgy of niobium, tantalum, and vanadium," by C.K. Gupta, pages 405-444, 1984, no month, International Metals Reviews, Vol. 29(6),	Yes

EXAMINER

DATE CONSIDERED

SJB

4-14-98

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.